| Index of Claims |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| <b>Applicati</b> | on/Control No. |
|------------------|----------------|
|------------------|----------------|

10/735,372

Examiner

Drew J. Brown

Applicant(s)/Patent under Reexamination

FRANTZEN ET AL.

Art Unit

3616

| <b>√</b> | Rejected |
|----------|----------|
|          | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla      | aim      | Date     |  |  |          |  | Date Claim Date |              |                    |          |   |       |          |          |          | $\neg$   | Claim Date |          |   |           |           |           |                |            |          |          |   |    |          |  |
|----------|----------|----------|--|--|----------|--|-----------------|--------------|--------------------|----------|---|-------|----------|----------|----------|----------|------------|----------|---|-----------|-----------|-----------|----------------|------------|----------|----------|---|----|----------|--|
| 016      |          | $\vdash$ | Γ.   | П  | г.       | Jan  | <u> </u>        | Τ-           | Γ-                 | $\dashv$ | ŀ | - 012 |          |          | Т        | Т        | Ť          |          |   |           | Т         | $\dashv$  | <del>  0</del> |            | -        |          |   | Ť  |          |  |
| Final    | Original | 1/4/06   | 5/24/06  |  |          |  |                 |              |                    |          |   | Final | Original |          |          |          |            |          |   |           |           |           | Final          | Original   |          |          |   |    |          |  |
|          | 1        | 1        | 1  |  |          |  |                 |              |                    |          | t |       | 51       |          |          |          |            |          |   |           | $\exists$ | <u></u>   |                | 101        |          |          |   |    |          |  |
|          | 2        | 1        | 1  | Г  |          |  |                 |              |                    |          | ſ |       | 52       |          |          | $\neg$   |            |          |   |           | T         | $\neg$    |                | 102        |          |          |   |    |          |  |
|          | 3        | 1        | 1  |  |          |  |                 |              |                    |          | [ |       | 53       |          |          |          |            |          |   |           |           |           |                | 103        |          |          |   |    |          |  |
|          | 4        | 1        | 1  |  |          |  |                 |              |                    |          |   |       | 54       |          |          |          |            |          |   |           |           |           |                | 104        |          |          |   |    | !        |  |
|          | 5        | V        | 1  |  |          |  |                 |              |                    |          |   |       | 55       |          |          |          |            |          |   |           |           |           |                | 105        |          |          |   |    |          |  |
|          | 6        | ٧        | 1  |  |          |  |                 |              |                    |          | [ |       | 56       |          |          |          |            |          |   |           |           |           |                | 106        |          |          |   |    |          |  |
|          | 7        | 1        | 1  |  |          |  |                 |              |                    |          | [ |       | 57       |          |          |          |            |          |   |           |           |           | L.             | 107        |          |          |   |    |          |  |
|          | 8        | 1        | <u> </u> -                                       |  | L        |  |                 |              |                    |          |   |       | 58       |          |          |          |            |          |   |           |           |           |                | 108        |          |          |   |    |          | $\perp$  |
| L        | 9        | 1        | Ŀ  | L  | <u> </u> |  |                 |              |                    |          | ļ |       | 59       |          |          |          |            |          |   |           | _         |           |                | 109        | L        |          |   |    |          | $\perp$  |
|          | 10       | 1        | 1  | <u> </u>   |          | ļ  | L               | L            |                    |          | - |       | 60       | Ш        |          | _        |            |          |   |           |           | _         |                | 110        |          |          |   |    |          |  |
| <u> </u> | 11       | V        | 1  | <u> </u>   | ļ        |  | L               | L.           |                    |          | ļ |       | 61       |          |          |          | _          |          |   | _         | 4         | _         | <u> </u>       | 111        | <u> </u> |          |   |    |          |  |
| <u> </u> | 12       |          |  | _  | ļ.,      |  |                 | <u> </u>     |                    |          | ļ |       | 62       |          | _        | _        | _          |          |   | _         | _         | _         |                | 112        | ļ        |          |   |    |          |  |
|          | 13       | _        | <u> </u>   | <u> </u>   | _        | _  | _               | <u> </u>     |                    |          |   |       | 63       | Ш        | _        | _        | _          | _        |   |           | _         | _         |                | 113        |          |          |   |    | Ш        | $\vdash \vdash$  |
|          | 14       |          | <u> </u>   | <u> </u>   | <u> </u> | <u> </u>   | <u> </u>        | <u> </u>     |                    |          | - |       | 64       | Н        | $\dashv$ | $\dashv$ | _          | _        |   | $\dashv$  | $\dashv$  | _         |                | 114        | <u> </u> |          | _ |    |          |  |
|          | 15       | _        | _  | <u> </u>   | _        | _  | <u> </u>        | <u> </u>     | $oxed{oxed}$       |          | - |       | 65       | Ш        | $\dashv$ | $\dashv$ | $\dashv$   | _        |   |           | $\dashv$  | _         |                | 115        | <u> </u> |          |   |    |          |  |
|          | 16       |          | _  | <u> </u>   | _        | <u> </u>   | _               | -            | -                  |          | ŀ |       | 66       |          | _        |          | _          |          |   | $\square$ | $\dashv$  | _         | <u> </u>       | 116        | <u> </u> |          |   |    | Ш        | $\vdash$   |
|          | 17       | _        | -  | <del> </del>                                     | <u> </u> |  | -               | <del> </del> | -                  |          | ŀ |       | 67       | $\vdash$ | $\dashv$ |          | -          | _        |   | $\Box$    | $\dashv$  | 4         | -              | 117        | <u> </u> | $\vdash$ | Н |    | Ш        | $\vdash$   |
|          | 18       |          |  | L  | _        |  | _               | <u> </u>     | $\vdash$           |          | H |       | 68       | Н        | _        | $\dashv$ | $\dashv$   | _        |   |           | $\dashv$  | 4         | <u> </u>       | 118        | _        |          |   | ш  | Ш        | $\vdash$   |
|          | 19       |          | -  | <del> </del>                                     | ⊢        | ├  | -               | <del> </del> | -                  |          | H |       | 69       | Н        |          | $\dashv$ |            | _        |   | $\vdash$  | $\dashv$  | -         | -              | 119<br>120 | <u> </u> |          | Н |    | -        | $\vdash$   |
| -        | 20       | -        | H  | $\vdash$   | $\vdash$ | $\vdash$   | ⊢               | ├            | -                  |          | - | -     | 70       | Н        | $\dashv$ | $\dashv$ | $\dashv$   | _        | _ | $\vdash$  | $\dashv$  | -         | -              | 121        | <u> </u> | $\vdash$ | Н |    | $\vdash$ | $\vdash$   |
|          | 22       |          | -  | $\vdash$   | ⊢        | ⊢  | ⊢               | <del> </del> |                    |          | H |       | 71<br>72 | Н        |          | $\dashv$ | $\dashv$   | _        |   | $\vdash$  | $\dashv$  | -         | -              | 122        |          |          |   |    |          | $\vdash$   |
|          | 23       |          | -  | ├  | $\vdash$ | ⊢  | ├-              | ┢            | -                  | $\dashv$ | ŀ |       | 73       | Н        |          | $\dashv$ |            |          | _ |           | -+        | $\dashv$  |                | 123        | ├        |          | - | _  |          | +  |
|          | 24       |          |  | $\vdash$   | ⊢        |  | $\vdash$        | -            | -                  |          | H |       | 74       | -1       |          |          | -          | $\dashv$ |   |           | -         | $\dashv$  | -              | 123        |          | -        | - |    |          | $\vdash$   |
|          | 25       |          |  | $\vdash$   | $\vdash$ |  | ⊢               | <del> </del> | H                  |          | H |       | 75       | Н        | -        | $\dashv$ | -          | -        |   | $\vdash$  | $\dashv$  | $\dashv$  |                | 125        | ├─       | -        | - |    |          | $\vdash$   |
|          | 26       |          | $\vdash$   | $\vdash$   | $\vdash$ | $\vdash$   | ├-              | ├            | -                  |          | ŀ |       | 76       | $\vdash$ |          | ᅱ        | $\dashv$   |          | _ | -         | $\dashv$  | $\dashv$  | -              | 126        | ┢        | H        | H |    | -        |  |
|          | 27       | _        | $\vdash$   | $\vdash$   |          |  | ┢               | <del> </del> | $\vdash$           | -        | ŀ |       | 77       | $\vdash$ |          | ᅱ        | $\neg$     |          | _ | -         | -         | $\dashv$  | -              | 127        | $\vdash$ |          | Н |    | $\vdash$ | -  |
|          | 28       |          |  | $\vdash$   |          | H  |                 | 1            | -                  |          | ŀ |       | 78       | H        | 1        |          |            | -        |   |           | -+        | $\dashv$  | -              | 128        | $\vdash$ |          | Н |    | -        | $\vdash$   |
| -        | 29       | -        | -  | -  |          | -  | ┪               | $\vdash$     | $\vdash$           |          | ŀ |       | 79       | Н        | _        | $\dashv$ | $\dashv$   | ┪        |   | $\dashv$  | $\dashv$  | $\dashv$  | -              | 129        | ┢        | -        | Н |    |          | $\vdash$   |
|          | 30       |          | _  | ├─   | ┢        | ┢  |                 | $\vdash$     |                    |          | l |       | 80       | Н        | $\dashv$ | $\dashv$ |            |          |   |           | $\dashv$  | $\dashv$  |                | 130        | $\vdash$ | -        | Н |    |          | $\Box$   |
|          | 31       |          |  | Г  |          | H  | 1               | ┢            | H                  | =        | ı |       | 81       |          | ᄀ        | _        | ┪          | _        | _ | _         | $\dashv$  | $\dashv$  | <b></b>        | 131        | _        | -        | Н |    |          | $\sqcap$   |
|          | 32       | $\vdash$ | <del>                                     </del> | <del>                                     </del> | $\vdash$ | ┢  | _               | $\vdash$     | $\vdash$           |          | ı |       | 82       | Н        | 寸        | 一        | $\neg$     | $\neg$   |   | $\dashv$  | $\dashv$  | $\dashv$  | 1              | 132        |          |          |   | _  |          | $\sqcap$   |
|          | 33       | $\vdash$ | <u> </u>   |  | _        |  | ┢               | T            |                    |          | ı |       | 83       | Н        | T        | 一        |            |          |   |           | $\dashv$  | $\neg$    |                | 133        |          |          |   |    |          |  |
|          | 34       |          |  | Г  |          |  | Г               |              |                    |          | ı |       | 84       | П        | $\neg$   |          | $\neg$     |          |   | $\exists$ |           | $\exists$ |                | 134        |          |          |   |    |          |  |
|          | 35       |          |  | Г  | Γ        | $\vdash$   | Π               |              |                    |          | ı |       | 85       | П        | ı        |          | ヿ          |          |   |           | $\dashv$  |           |                | 135        |          | П        | П |    |          | $\Box$   |
|          | 36       |          |  | Γ  | Γ        | 1  |                 |              |                    |          | İ |       | 86       | П        |          | T        | $\exists$  |          |   |           | $\dashv$  |           |                | 136        |          |          |   |    |          |  |
|          | 37       |          |  |  |          |  |                 | Γ            |                    |          | İ |       | 87       | $\sqcap$ |          | 一        | $\neg$     |          |   |           | $\dashv$  |           |                | 137        |          | Г        | П |    |          | $\Box$   |
|          | 38       |          |  |  |          |  |                 |              |                    |          | Ī |       | 88       |          |          |          |            |          |   |           | 丁         |           |                | 138        | _        |          |   |    |          |  |
|          | 39       |          |  |  |          |  |                 | Ĺ            |                    |          | Ì |       | 89       |          |          |          |            |          |   |           |           |           |                | 139        |          |          |   |    |          |  |
|          | 40       |          |  |  |          |  |                 |              |                    |          |   |       | 90       |          |          | ┚        |            |          |   |           |           |           |                | 140        |          |          |   |    |          |  |
|          | 41       |          |  |  |          |  |                 |              |                    |          | [ |       | 91       |          |          |          |            |          |   |           |           |           |                | 141        |          |          |   |    |          |  |
|          | 42       |          |  |  | 匚        |  |                 |              |                    |          | Ī |       | 92       | Ш        |          | $\Box$   | $\Box$     |          |   |           |           |           |                | 142        |          |          |   |    |          |  |
|          | 43       |          |  |  |          | 匚  | $\Box$          | L            | $oxedsymbol{oxed}$ |          | [ |       | 93       | $\Box$   |          | I        |            |          |   |           | $\Box$    |           |                | 143        |          |          |   |    |          | $\Box \Box$  |
|          | 44       | <u> </u> | <u> </u>   | _  |          | $oxedsymbol{oxedsymbol{oxedsymbol{oxedsymbol{eta}}}$ | 匚               |              |                    |          | [ | _     | 94       | Ш        |          |          |            |          |   |           |           |           |                | 144        | L        | $\Box$   |   |    |          |  |
|          | 45       | _        | <u> </u>   |  |          |  |                 | L            |                    |          | [ |       | 95       | Ш        | [        | Ĭ        |            |          |   | I         |           |           |                | 145        |          |          |   |    |          | $\Box$   |
| <u> </u> | 46       | _        | <u> </u>   | <u> </u>   |          | <u> </u>   | <u> </u>        | L_           |                    |          | Į |       | 96       | Ш        |          | ļ        |            |          |   |           | $\bot$    | _         |                | 146        |          |          |   |    |          |  |
|          | 47       | <u> </u> | _  | _  | L        | <u> </u>   |                 |              | L.                 |          |   | -     | 97       | Ш        | [        |          |            |          |   |           | $\bot$    | $\Box$    |                | 147        |          |          |   |    |          | ot   |
| <u> </u> | 48       |          | L.   | <u> </u>   | <u>L</u> | L_   | _               | <u> </u>     | <u> </u>           |          | L |       | 98       | Ш        |          | _        |            |          |   |           |           |           |                | 148        |          |          |   | Ш  |          | $\vdash \vdash$  |
| <u></u>  | 49       | <u> </u> | <u> </u>   |  | L.       |  | <u> </u>        | <u> </u>     |                    |          | ļ |       | 99       | Ш        |          |          | _          |          |   |           | _         | $\Box$    |                | 149        | L        | <u> </u> | Ш | L. |          | $\vdash$   |
|          | 50       | L        | L_   |  | l        |  | <u> </u>        | <u>L</u> .   |                    |          | L |       | 100      | Ш        |          |          | $\perp$    |          |   |           |           |           |                | 150        | L        | L        |   |    |          | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ |

| Cli   | aim   |        |   |   |   | Date     | <br>e    |   | - | $\neg$ |
|-------|---|--------|---|---|---|----------|----------|---|---|--------|
|       |   |        |   |   |   |          |          |   |   |        |
| 20    | Original  |        |   |   |   |          |          |   |   |        |
| Final | rig   |        |   |   |   |          |          |   |   |        |
|       | 0   |        |   |   |   |          |          |   |   |        |
|       | 101   | $\neg$ |   |   |   | _        |          |   |   |        |
|       | 102   |        |   |   |   |          |          |   |   |        |
|       | 103   |        |   |   |   |          |          |   |   |        |
|       | 104   |        |   |   |   | _        |          |   |   |        |
|       | 103<br>104<br>105   |        |   |   |   |          |          |   |   |        |
|       | 106   |        |   |   |   | Г        |          |   |   |        |
|       | 106<br>107  |        |   |   |   | Г        |          | _ |   |        |
|       | 108   |        |   |   |   |          |          |   |   |        |
|       | 109   |        |   | _ |   |          |          |   |   |        |
|       | 110   |        |   |   |   |          |          |   |   |        |
|       | 111   |        |   |   |   |          |          |   |   |        |
|       | 112   |        |   |   |   |          |          |   |   |        |
|       | 108<br>109<br>110<br>111<br>112<br>113                      |        |   |   |   |          |          |   |   |        |
|       | 114   |        |   |   |   |          |          |   |   |        |
|       | 115   |        |   |   | _ |          |          |   |   |        |
|       | 114<br>115<br>116   |        |   | T |   |          |          |   |   |        |
|       | 117<br>118<br>119<br>120<br>121                             |        |   |   |   |          |          |   |   |        |
|       | 118   |        |   |   |   |          | Г        |   |   |        |
|       | 119   |        |   |   |   | $\vdash$ | $\vdash$ |   |   |        |
|       | 120   |        |   |   |   |          |          |   |   | П      |
|       | 121   |        |   |   |   |          | Г        |   |   | П      |
|       | 122   |        |   |   |   |          |          |   |   | П      |
|       | 122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130 |        |   |   |   |          | Г        |   |   |        |
|       | 124   |        |   | _ |   |          | $\vdash$ |   |   | П      |
|       | 125   |        | _ |   |   |          |          |   |   | П      |
|       | 126   |        |   | Г |   |          |          | _ |   |        |
|       | 127   | Г      |   |   |   | Г        | <u> </u> | _ |   |        |
|       | 128   |        |   |   |   |          |          |   |   |        |
|       | 129   | Г      |   |   |   |          |          |   |   |        |
|       | 130   |        |   |   |   |          |          |   |   |        |
|       | 131   |        |   |   |   | Г        |          |   |   |        |
|       | l 132   |        |   |   |   |          |          |   |   | П      |
|       | 133   |        |   | _ |   |          |          |   |   | П      |
|       | 133<br>134  | Г      |   |   |   |          |          |   |   |        |
|       | 135   |        |   |   |   |          |          |   |   |        |
|       | 136   |        |   |   |   |          |          |   |   |        |
|       | 136<br>137  |        |   |   |   |          |          |   |   |        |
|       | 138<br>139  |        |   |   |   |          |          |   |   |        |
|       | 139   |        |   |   |   |          |          |   |   |        |
|       | 140   |        |   |   |   | Ĺ        |          |   | L |        |
|       | 141   |        |   |   |   |          |          |   |   |        |
|       | 142   |        |   |   |   |          |          |   |   |        |
|       | 143   |        |   | L |   | Ĺ        |          | L | L |        |
|       | 144   |        |   |   |   |          |          |   |   |        |
|       | 145   |        |   | L |   |          |          |   |   |        |
|       | 146   |        |   |   |   |          |          |   |   |        |
|       | 147   |        |   |   | Ĺ |          |          |   | Ľ |        |
|       | 148   |        |   |   |   |          |          |   |   |        |
|       | 149   |        |   |   |   |          |          |   |   |        |
|       | 150   |        |   |   |   |          |          |   |   |        |